

March 6, 2000

Dear Ethanol Vehicle Challenge Faculty Advisors:

The Governors Ethanol Coalition (GEC) is excited to announce its sponsorship of a Faculty Award as part of the 2000 Ethanol Vehicle Challenge again this year. The award will go to the faculty advisor who creates the best automotive engineering educational experience for his or her students. Persons who have won the award are not eligible to apply again for three years from the date of their award.

We are particularly interested in student impact, and the interdisciplinary relationships and activities that can result from a project like the Ethanol Vehicle Challenge. Be sure to include activities from your first year of participation in the Ethanol Vehicle Challenge through to the present.

The GEC Faculty Award is for \$10,000. Of that amount, \$1,000 is discretionary and the remaining \$9,000 will be put into a university account controlled by the faculty advisor to promote activities compatible with the Ethanol Vehicle Challenge, such as alternative fuel research projects, engineering curriculum development, etc.

To be considered for this award, please provide to us by **March 31, 2000** an application that addresses the criteria described in the enclosure.

The GEC Faculty Award is one way for us to recognize the enormous commitment required to guide a team from the research and planning stages of automotive development to a proud finish at the 2000 Ethanol Vehicle Challenge. It can hardly compensate for all the extra time in the lab and weeks on the road – but it is a start. We hope to hear from all of you.

Sincerely,

Larry Bean, Representative
Governor Vilsack, Chair
Governors Ethanol Coalition

Shelley Launey, Director
Clean Cities Program
Office of Transportation Technologies
U.S. Department of Energy

Title: 2000 Governors' Ethanol Coalition Faculty Advisor Award

Sponsor/Supporter: Governors' Ethanol Coalition (GEC)

Deadlines Application Deadline: March 31, 2000
Award Presentation: 9 AM – 12:00 PM, Cleary Convention Centre
Windsor, ON CANADA

Eligibility Criteria: Applicants must be an Ethanol Vehicle Challenge faculty advisor at one of the following universities:

Cedarville College
Crowder College
Idaho State University
Illinois Institute of Technology
Kettering University
Minnesota State University, Mankato
University of California at Riverside
University of Illinois at Chicago
University of Kansas
University of Nebraska at Lincoln
University of Texas at Austin
University of Texas at El Paso
University of Waterloo
Wayne State University

To be eligible for the award, an applicant's team must have submitted the 1999 Ethanol Vehicle Challenge Faculty Survey. The survey must be submitted by the application deadline if it has not already been received.

Who May Submit: Applications may be submitted by a single individual or an advisor team where more than one individual shares the primary responsibility for guiding the team. Applications may also be submitted on behalf of the advisor or advisor team by the Department Head or by members of the Ethanol Vehicle Challenge team. 1999 Governors' Ethanol Coalition Faculty Advisor Award recipients are not eligible for the 2000 award.

Award Amount: \$10,000

Abstract: This award will be presented to the faculty advisor who best promotes the goals, objectives, and activities related to the 2000 Ethanol Vehicle Challenge (please refer to the introduction of the 2000 *Ethanol Vehicle Challenge Competition Rules and Regulations*). Of special importance are the benefits students receive as a result of the Ethanol Vehicle Challenge program. Judges will attempt to determine from the applications submitted that faculty advisor who has created the best automotive engineering and

engineering design experience for his/her students, and who has best used the Ethanol Vehicle Challenge to enrich the university engineering program.

Judging Criteria: The sponsors recognize that not all criteria should be evaluated equally and that different circumstances at the various schools may make some of the criteria more relevant than other criteria. The sponsors also recognize that it is not always possible to anticipate all the factors that may contribute to the desired outcome. And finally, we know that simply listing criteria cannot adequately describe the impact that the Ethanol Challenge may have on your students. Therefore, if you think additional information would contribute to our understanding of the desired outcome, you are welcome to include it, as long as the application does not exceed five pages. At a minimum, please address the following criteria:

✓ Student Involvement: Students should benefit from Ethanol Challenge activities whether they are freshmen, seniors, or graduate students. Describe the way students are organized to participate in the Challenge, both in terms of the project's management, and in terms of their professional development. Differentiate between graduate students, seniors, and other under graduate students. Describe how your team is organized. Describe also how team leaders are selected and trained, including a description of the tools that are provided to help them become effective leaders and managers. And finally, describe the involvement and roles of students from other disciplines (physics, chemistry, mathematics, business, marketing, or journalism) and how their participation enhances the team's performance.

✓ Course Credit: What courses are offered specifically focused on Ethanol Challenge activities? Describe in detail how the Challenge is integrated into the curriculum, whether it is a full project course, or a source of topics to be used in various courses. Give particular attention to the various engineering disciplines involved. Are courses offered in more than one engineering area? Can students in other disciplines receive course credit for Challenge activities?

✓ University/College Improvements: Describe any institutional improvements that have been made as a result of participation in the Ethanol Vehicle Challenge. Improvements might include new space or facilities, new laboratory equipment, etc.

✓ Presentations: What kind of presentations are made on the Ethanol Challenge project within the Engineering Department, at technical seminars, before sponsors or other interested groups, at professional meetings, or in the community? Focus less on the number of presentations

and more on their significance, audience, leverage gained, and potential impact on the program and the students.

✓ Technical Workshops: Describe student participation in technical workshops, such as those offered by Ethanol Challenge sponsors or similar events sponsored by related societies and organizations.

✓ Student Impact: Student impact will be determined from recommendations obtained from students and other knowledgeable parties.

Requirements:

Applicants should provide documentation to address the criteria described above and a description of the university's concepts for incorporating Challenge activities into the engineering curriculum to promote education, professional development, etc. This should be done in an informal report not to exceed five pages.

In addition to the faculty documentation, the application must contain:

☞ The names and addresses of at least five Ethanol Challenge team members, including the team leader, who may be asked to provide written documentation on the benefits they have received from their participation in the Challenge; and

☞ A letter from the dean (or other university official) describing the role of the faculty advisor in providing an automotive engineering education through the Ethanol Challenge.

Award Spending:

\$9,000 of the cash award must be used by the faculty advisor to promote activities compatible with the Ethanol Challenge, such as alternative fuel research projects, engineering curriculum development, etc. at the college or university. The remaining \$1,000 is considered a cash award for the personal use of the faculty advisor or advisor's team.

Application

Mailing Address:

Send five copies of your application to:

T. G. Powell (EE 34)

U.S. Department of Energy

Clean Cities Program

1000 Independence Ave. SW

Washington, DC 20585